



AMS VALVES
5001 Spring Valley Road, Suite 400 East, Dallas, TX 75244, United States.

PHONE : (903) 912-7717
FAX : (972) 8507757
WEB : amsvalves.com

MATERIAL TEST CERTIFICATE (EN: 10204 3.1)

CUSTOMER : AL ZERWA TRADING CO LLC.
CERTIFICATE NO : 03624RTPA
DATE OF CERTIFICATE : 6th July 2024

SIZE : 1" (25MM)
PRESSURE : 300#
ENDS : FLANGED
QUANTITY : 20NOS

VALVE TYPE : BALL VALVE
PROJECT : 03624RTPA
VALVE ID : AMS 2406 1021

HYDRO TEST DATA		SHELL TEST (Water)			H.P Pressure Seat (Water)			L.P Press Test (AIR)		BACK SEAT*		TEST STD			VISUAL INSPECTION			SPECIAL TESTS						
PRESSURE(Mpa)		7.5			5.5			0.7		/		API 598			MSS SP25/55			Anti-static : Passed Cavity Relief : Passed Painting : / / / / /						
DURATION(Min)		60sec			60sec			60sec		/					ACCEPTED									
DESIGN PARAMETERS		FACE TO FACE			END CONNECTION			DESIGN STANDARD			FIRE SAFE DESIGN			SOUR SPEC										
STANDARDS		ASME B16.10			ASME B16.5			ASME B16.34			/			NACE MR-01-75										
RESULT		Within Tolerance			Within Tolerance			Within Tolerance			/			Complied										
PARTS		BODY ADAPTOR			BALL/PLUG/DISC			STEM/HINGE		OPERATOR		SEAT RING			SOFT SEAT			SPRING		GASKET		PACKING		
MATERIAL GRADE		CF3M			316L			316		SS201		PTFE			PTFE			/		PTFE		PTFE		
COATING																								
DESCRIPTION		CHEMICAL ANALYSIS														MECHANICAL ANALYSIS					IMPACT TEST			
PART	HEAT NO	C	Mn	P	S	Si	Cr	Mo	Ni	Cu	V	Nb	Al	Oth	Oth	T.S.	Y.P	EL	RA	BH	J			
		≤ 0.03	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0	-	-	-	-	-	-	≥ 485 Mpa	≥ 205h	≥ 30%	-	-	(-Deg C)			
BODY	AMS20240513	0.074	1.3	0.037	0.029	1.27	18.15	2.18	9.15	-	-	-	-	-	-	490	215	30	-	185	-	-	-	-
BALL	-	0.047	0.81	0.019	0.007	0.76	18.25	2.23	9.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STEM	-	≤ 0.08	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0	-	-	-	-	-	-	≥ 515 Mpa	-	-	-	-	-	-	-	-
	-	0.049	0.92	0.027	0.013	0.65	16.54	2.16	10.31	-	-	-	-	-	-	526	-	-	-	-	-	-	-	-

Notes: *Hydrostatic Medium Is Water,** Seat Test Is Conducted On Both Sides For Bi-directional Valves.

We here by confirm that the valves referred in this certificate is confirmed to meet the referred data and approved for release to customer.

Check Witnessed Quality Manager

Other Stamp & Sign



Company Stamp



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MATERIAL TEST CERTIFICATE (EN: 10204 3.1)**CUSTOMER :** AL ZERWA TRADING CO LLC.**CERTIFICATE NO :** 03624RTPA**DATE OF CERTIFICATE :** 6th July 2024**SIZE :** 1" (25MM)**PRESSURE :** 300#**ENDS :** FLANGED**QUANTITY :** 20NOS**VALVE TYPE :** BALL VALVE**PROJECT :** 03624RTPA**VALVE ID :** AMS 2406 1022

HYDRO TEST DATA		SHELL TEST (Water)			H.P Pressure Seat (Water)			L.P Press Test (AIR)		BACK SEAT*		TEST STD			VISUAL INSPECTION			SPECIAL TESTS						
PRESSURE(Mpa)		7.5			5.5			0.7		/		API 598			MSS SP25/55			Anti-static : Passed Cavity Relief : Passed Painting : / / / / /						
DURATION(Min)		60sec			60sec			60sec		/					ACCEPTED									
DESIGN PARAMETERS		FACE TO FACE			END CONNECTION			DESIGN STANDARD			FIRE SAFE DESIGN			SOUR SPEC										
STANDARDS		ASME B16.10			ASME B16.5			ASME B16.34			/			NACE MR-01-75										
RESULT		Within Tolerance			Within Tolerance			Within Tolerance			/			Complied										
PARTS		BODY ADAPTOR			BALL/PLUG/DISC			STEM/HINGE		OPERATOR		SEAT RING			SOFT SEAT			SPRING		GASKET		PACKING		
MATERIAL GRADE		CF3M			316L			316		SS201		PTFE			PTFE			/		PTFE		PTFE		
COATING																								
DESCRIPTION		CHEMICAL ANALYSIS														MECHANICAL ANALYSIS					IMPACT TEST			
PART	HEAT NO	C	Mn	P	S	Si	Cr	Mo	Ni	Cu	V	Nb	Al	Oth	Oth	T.S.	Y.P	EL	RA	BH	J			
		≤ 0.03	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0	-	-	-	-	-	-	≥ 485 Mpa	≥ 205h	≥ 30%	-	-	(-Deg C)			
BODY	AMS20240513	0.074	1.3	0.037	0.029	1.27	18.15	2.18	9.15	-	-	-	-	-	-	490	215	30	-	185	-	-	-	-
BALL	-	0.047	0.81	0.019	0.007	0.76	18.25	2.23	9.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
STEM	-	≤ 0.08	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0	-	-	-	-	-	-	≥ 515 Mpa	-	-	-	-	-	-	-	
	-	0.049	0.92	0.027	0.013	0.65	16.54	2.16	10.31	-	-	-	-	-	-	526	-	-	-	-	-	-	-	

Notes: "Hydrostatic Medium Is Water, ** Seat Test Is Conducted On Both Sides For Bi-directional Valves.

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MATERIAL TEST CERTIFICATE (EN: 10204 3.1)**CUSTOMER :** AL ZERWA TRADING CO LLC.**CERTIFICATE NO :** 03624RTPA**DATE OF CERTIFICATE :** 6th July 2024**SIZE :** 1" (25MM)**PRESSURE :** 300#**ENDS :** FLANGED**QUANTITY :** 20NOS**VALVE TYPE :** BALL VALVE**PROJECT :** 03624RTPA**VALVE ID :** AMS 2406 1023

HYDRO TEST DATA		SHELL TEST (Water)			H.P Pressure Seat (Water)			L.P Press Test (AIR)		BACK SEAT*		TEST STD			VISUAL INSPECTION			SPECIAL TESTS						
PRESSURE(Mpa)		7.5			5.5			0.7		/		API 598			MSS SP25/55			Anti-static : Passed Cavity Relief : Passed Painting : / / / / /						
DURATION(Min)		60sec			60sec			60sec		/					ACCEPTED									
DESIGN PARAMETERS		FACE TO FACE			END CONNECTION			DESIGN STANDARD			FIRE SAFE DESIGN			SOUR SPEC										
STANDARDS		ASME B16.10			ASME B16.5			ASME B16.34			/			NACE MR-01-75										
RESULT		Within Tolerance			Within Tolerance			Within Tolerance			/			Complied										
PARTS		BODY ADAPTOR			BALL/PLUG/DISC			STEM/HINGE		OPERATOR		SEAT RING			SOFT SEAT			SPRING		GASKET		PACKING		
MATERIAL GRADE		CF3M			316L			316		SS201		PTFE			PTFE			/		PTFE		PTFE		
COATING																								
DESCRIPTION		CHEMICAL ANALYSIS														MECHANICAL ANALYSIS					IMPACT TEST			
PART	HEAT NO	C	Mn	P	S	Si	Cr	Mo	Ni	Cu	V	Nb	Al	Oth	Oth	T.S.	Y.P	EL	RA	BH	J			
		≤ 0.03	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0	-	-	-	-	-	-	≥ 485 Mpa	≥ 205h	≥ 30%	-	-	(-Deg C)			
BODY	AMS20240513	0.074	1.3	0.037	0.029	1.27	18.15	2.18	9.15	-	-	-	-	-	-	490	215	30	-	185	-	-	-	-
BALL	-	0.047	0.81	0.019	0.007	0.76	18.25	2.23	9.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
STEM	-	≤ 0.08	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0	-	-	-	-	-	-	≥ 515 Mpa	-	-	-	-	-	-	-	
	-	0.049	0.92	0.027	0.013	0.65	16.54	2.16	10.31	-	-	-	-	-	-	526	-	-	-	-	-	-	-	

Notes: "Hydrostatic Medium Is Water, "** Seat Test Is Conducted On Both Sides For Bi-directional Valves.

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MATERIAL TEST CERTIFICATE (EN: 10204 3.1)

CUSTOMER : AL ZERWA TRADING CO LLC.
CERTIFICATE NO : 03624RTPA
DATE OF CERTIFICATE : 6th July 2024

SIZE : 1" (25MM)
PRESSURE : 300#
ENDS : FLANGED
QUANTITY : 20NOS

VALVE TYPE : BALL VALVE
PROJECT : 03624RTPA
VALVE ID : AMS 2406 1024

HYDRO TEST DATA		SHELL TEST (Water)			H.P Pressure Seat (Water)			L.P Press Test (AIR)		BACK SEAT*		TEST STD			VISUAL INSPECTION			SPECIAL TESTS							
PRESSURE(Mpa)		7.5			5.5			0.7		/		API 598			MSS SP25/55			Anti-static : Passed							
DURATION(Min)		60sec			60sec			60sec		/					ACCEPTED			Cavity Relief : Passed							
DESIGN PARAMETERS		FACE TO FACE			END CONNECTION			DESIGN STANDARD				FIRE SAFE DESIGN			SOUR SPEC			Painting : /							
STANDARDS		ASME B16.10			ASME B16.5			ASME B16.34				/			NACE MR-01-75			/ /							
RESULT		Within Tolerance			Within Tolerance			Within Tolerance				/			Complied			/ /							
PARTS		BODY ADAPTOR			BALL/PLUG/DISC			STEM/HINGE		OPERATOR		SEAT RING			SOFT SEAT			SPRING		GASKET		PACKING			
MATERIAL GRADE		CF3M			316L			316		SS201		PTFE			PTFE			/		PTFE		PTFE			
COATING																									
DESCRIPTION		CHEMICAL ANALYSIS														MECHANICAL ANALYSIS						IMPACT TEST			
PART	HEAT NO	C	Mn	P	S	Si	Cr	Mo	Ni	Cu	V	Nb	Al	Oth	Oth	T.S.	Y.P	EL	RA	BH	J				
		≤ 0.03	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0	-	-	-	-	-	-	≥ 485 Mpa	≥ 205h	≥ 30%	-	-	(-Deg C)				
BODY	AMS20240513	0.074	1.3	0.037	0.029	1.27	18.15	2.18	9.15	-	-	-	-	-	-	490	215	30	-	185	-	-	-	-	
BALL	-	0.047	0.81	0.019	0.007	0.76	18.25	2.23	9.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
STEM	-	≤ 0.08	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0	-	-	-	-	-	-	≥ 515 Mpa	-	-	-	-	-	-	-	-	
	-	0.049	0.92	0.027	0.013	0.65	16.54	2.16	10.31	-	-	-	-	-	-	526	-	-	-	-	-	-	-	-	

Notes: "Hydrostatic Medium Is Water, "** Seat Test Is Conducted On Both Sides For Bi-directional Valves.

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Check Witnessed Quality Manager

Michael

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MATERIAL TEST CERTIFICATE (EN: 10204 3.1)

CUSTOMER : AL ZERWA TRADING CO LLC.
CERTIFICATE NO : 03624RTPA
DATE OF CERTIFICATE : 6th July 2024

SIZE : 1" (25MM)
PRESSURE : 300#
ENDS : FLANGED
QUANTITY : 20NOS

VALVE TYPE : BALL VALVE
PROJECT : 03624RTPA
VALVE ID : AMS 2406 1025

HYDRO TEST DATA		SHELL TEST (Water)			H.P Pressure Seat (Water)			L.P Press Test (AIR)		BACK SEAT*		TEST STD			VISUAL INSPECTION			SPECIAL TESTS						
PRESSURE(Mpa)		7.5			5.5			0.7		/		API 598			MSS SP25/55			Anti-static : Passed Cavity Relief : Passed Painting : / / / / /						
DURATION(Min)		60sec			60sec			60sec		/					ACCEPTED									
DESIGN PARAMETERS		FACE TO FACE			END CONNECTION			DESIGN STANDARD			FIRE SAFE DESIGN			SOUR SPEC										
STANDARDS		ASME B16.10			ASME B16.5			ASME B16.34			/			NACE MR-01-75										
RESULT		Within Tolerance			Within Tolerance			Within Tolerance			/			Complied										
PARTS		BODY ADAPTOR			BALL/PLUG/DISC			STEM/HINGE		OPERATOR		SEAT RING			SOFT SEAT			SPRING		GASKET		PACKING		
MATERIAL GRADE		CF3M			316L			316		SS201		PTFE			PTFE			/		PTFE		PTFE		
COATING																								
DESCRIPTION		CHEMICAL ANALYSIS														MECHANICAL ANALYSIS					IMPACT TEST			
PART	HEAT NO	C	Mn	P	S	Si	Cr	Mo	Ni	Cu	V	Nb	Al	Oth	Oth	T.S.	Y.P	EL	RA	BH	J			
		≤ 0.03	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0	-	-	-	-	-	-	≥ 485 Mpa	≥ 205h	≥ 30%	-	-	(-Deg C)			
BODY	AMS20240513	0.074	1.3	0.037	0.029	1.27	18.15	2.18	9.15	-	-	-	-	-	-	490	215	30	-	185	-	-	-	-
BALL	-	0.047	0.81	0.019	0.007	0.76	18.25	2.23	9.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
STEM	-	≤ 0.08	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0	-	-	-	-	-	-	≥ 515 Mpa	-	-	-	-	-	-	-	-
	-	0.049	0.92	0.027	0.013	0.65	16.54	2.16	10.31	-	-	-	-	-	-	526	-	-	-	-	-	-	-	

Notes: "Hydrostatic Medium Is Water, "** Seat Test Is Conducted On Both Sides For Bi-directional Valves.

We here by confirm that the valves referred in this certificate is confirmed to meet the referred data and approved for release to customer.

Check Witnessed Quality Manager

Michael

Other Stamp & Sign



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MATERIAL TEST CERTIFICATE (EN: 10204 3.1)**CUSTOMER :** AL ZERWA TRADING CO LLC.**CERTIFICATE NO :** 03624RTPA**DATE OF CERTIFICATE :** 6th July 2024**SIZE :** 1" (25MM)**PRESSURE :** 300#**ENDS :** FLANGED**QUANTITY :** 20NOS**VALVE TYPE :** BALL VALVE**PROJECT :** 03624RTPA**VALVE ID :** AMS 2406 1026

HYDRO TEST DATA		SHELL TEST (Water)			H.P Pressure Seat (Water)			L.P Press Test (AIR)		BACK SEAT*		TEST STD			VISUAL INSPECTION			SPECIAL TESTS						
PRESSURE(Mpa)		7.5			5.5			0.7		/		API 598			MSS SP25/55			Anti-static : Passed						
DURATION(Min)		60sec			60sec			60sec		/					ACCEPTED			Cavity Relief : Passed						
DESIGN PARAMETERS		FACE TO FACE			END CONNECTION			DESIGN STANDARD				FIRE SAFE DESIGN		SOUR SPEC			Painting : /							
STANDARDS		ASME B16.10			ASME B16.5			ASME B16.34				/		NACE MR-01-75			/ /							
RESULT		Within Tolerance			Within Tolerance			Within Tolerance				/		Complied			/ /							
PARTS		BODY ADAPTOR			BALL/PLUG/DISC			STEM/HINGE		OPERATOR		SEAT RING		SOFT SEAT			SPRING		GASKET		PACKING			
MATERIAL GRADE		CF3M			316L			316		SS201		PTFE		PTFE			/		PTFE		PTFE			
COATING																								
DESCRIPTION		CHEMICAL ANALYSIS														MECHANICAL ANALYSIS					IMPACT TEST			
PART	HEAT NO	C	Mn	P	S	Si	Cr	Mo	Ni	Cu	V	Nb	Al	Oth	Oth	T.S.	Y.P	EL	RA	BH	J			
		≤ 0.03	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0	-	-	-	-	-	-	≥ 485 Mpa	≥ 205h	≥ 30%	-	-	(-Deg C)			
BODY	AMS20240513	0.074	1.3	0.037	0.029	1.27	18.15	2.18	9.15	-	-	-	-	-	-	490	215	30	-	185	-	-	-	-
BALL	-	0.047	0.81	0.019	0.007	0.76	18.25	2.23	9.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STEM	-	≤ 0.08	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0	-	-	-	-	-	-	≥ 515 Mpa	-	-	-	-	-	-	-	-
	-	0.049	0.92	0.027	0.013	0.65	16.54	2.16	10.31	-	-	-	-	-	-	526	-	-	-	-	-	-	-	-

Notes: "Hydrostatic Medium Is Water, ** Seat Test Is Conducted On Both Sides For Bi-directional Valves.

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HYDRO TEST DATA		SHELL TEST (Water)			H.P Pressure Seat (Water)			L.P Press Test (AIR)		BACK SEAT*		TEST STD			VISUAL INSPECTION			SPECIAL TESTS						
PRESSURE(Mpa)		7.5			5.5			0.7		/		API 598			MSS SP25/55			Anti-static : Passed Cavity Relief : Passed Painting : / / / / /						
DURATION(Min)		60sec			60sec			60sec		/					ACCEPTED									
DESIGN PARAMETERS		FACE TO FACE			END CONNECTION			DESIGN STANDARD			FIRE SAFE DESIGN			SOUR SPEC										
STANDARDS		ASME B16.10			ASME B16.5			ASME B16.34			/			NACE MR-01-75										
RESULT		Within Tolerance			Within Tolerance			Within Tolerance			/			Complied										
PARTS		BODY ADAPTOR			BALL/PLUG/DISC			STEM/HINGE		OPERATOR		SEAT RING			SOFT SEAT			SPRING		GASKET		PACKING		
MATERIAL GRADE		CF3M			316L			316		SS201		PTFE			PTFE			/		PTFE		PTFE		
COATING																								
DESCRIPTION		CHEMICAL ANALYSIS														MECHANICAL ANALYSIS					IMPACT TEST			
PART	HEAT NO	C	Mn	P	S	Si	Cr	Mo	Ni	Cu	V	Nb	Al	Oth	Oth	T.S.	Y.P	EL	RA	BH	J			
		≤ 0.03	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0	-	-	-	-	-	-	≥ 485 Mpa	≥ 205h	≥ 30%	-	-	(-Deg C)			
BODY	AMS20240513	0.074	1.3	0.037	0.029	1.27	18.15	2.18	9.15	-	-	-	-	-	-	490	215	30	-	185	-	-	-	-
BALL	-	0.047	0.81	0.019	0.007	0.76	18.25	2.23	9.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
STEM	-	≤ 0.08	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0	-	-	-	-	-	-	≥ 515 Mpa	-	-	-	-	-	-	-	-
	-	0.049	0.92	0.027	0.013	0.65	16.54	2.16	10.31	-	-	-	-	-	-	526	-	-	-	-	-	-	-	

Notes: "Hydrostatic Medium Is Water, "** Seat Test Is Conducted On Both Sides For Bi-directional Valves.

We here by confirm that the valves referred in this certificate is confirmed to meet the referred data and approved for release to customer.

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MATERIAL TEST CERTIFICATE (EN: 10204 3.1)**CUSTOMER :** AL ZERWA TRADING CO LLC.**CERTIFICATE NO :** 03624RTPA**DATE OF CERTIFICATE :** 6th July 2024**SIZE :** 1" (25MM)**PRESSURE :** 300#**ENDS :** FLANGED**QUANTITY :** 20NOS**VALVE TYPE :** BALL VALVE**PROJECT :** 03624RTPA**VALVE ID :** AMS 2406 1028

HYDRO TEST DATA		SHELL TEST (Water)			H.P Pressure Seat (Water)			L.P Press Test (AIR)		BACK SEAT*		TEST STD			VISUAL INSPECTION			SPECIAL TESTS						
PRESSURE(Mpa)		7.5			5.5			0.7		/		API 598			MSS SP25/55			Anti-static : Passed Cavity Relief : Passed Painting : / / / / /						
DURATION(Min)		60sec			60sec			60sec		/					ACCEPTED									
DESIGN PARAMETERS		FACE TO FACE			END CONNECTION			DESIGN STANDARD			FIRE SAFE DESIGN			SOUR SPEC										
STANDARDS		ASME B16.10			ASME B16.5			ASME B16.34			/			NACE MR-01-75										
RESULT		Within Tolerance			Within Tolerance			Within Tolerance			/			Complied										
PARTS		BODY ADAPTOR			BALL/PLUG/DISC			STEM/HINGE		OPERATOR		SEAT RING			SOFT SEAT			SPRING		GASKET		PACKING		
MATERIAL GRADE		CF3M			316L			316		SS201		PTFE			PTFE			/		PTFE		PTFE		
COATING																								
DESCRIPTION		CHEMICAL ANALYSIS														MECHANICAL ANALYSIS					IMPACT TEST			
PART	HEAT NO	C	Mn	P	S	Si	Cr	Mo	Ni	Cu	V	Nb	Al	Oth	Oth	T.S.	Y.P	EL	RA	BH	J			
		≤ 0.03	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0	-	-	-	-	-	-	≥ 485 Mpa	≥ 205h	≥ 30%	-	-	(-Deg C)			
BODY	AMS20240513	0.074	1.3	0.037	0.029	1.27	18.15	2.18	9.15	-	-	-	-	-	-	490	215	30	-	185	-	-	-	-
BALL	-	0.047	0.81	0.019	0.007	0.76	18.25	2.23	9.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
STEM	-	≤ 0.08	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0	-	-	-	-	-	-	≥ 515 Mpa	-	-	-	-	-	-	-	-
	-	0.049	0.92	0.027	0.013	0.65	16.54	2.16	10.31	-	-	-	-	-	-	526	-	-	-	-	-	-	-	

Notes: "Hydrostatic Medium Is Water, ** Seat Test Is Conducted On Both Sides For Bi-directional Valves.

We here by confirm that the valves referred in this certificate is confirmed to meet the referred data and approved for release to customer.

Check Witnessed Quality Manager

Other Stamp & Sign



Company Stamp



**AMS VALVES**

5001 Spring Valley Road, Suite 400 East, Dallas, TX 75244, United States.

PHONE : (903) 912-7717

FAX : (972) 8507757

WEB : amsvalves.com

MATERIAL TEST CERTIFICATE (EN: 10204 3.1)**CUSTOMER :** AL ZERWA TRADING CO LLC.**CERTIFICATE NO :** 03624RTPA**DATE OF CERTIFICATE :** 6th July 2024**SIZE :** 1" (25MM)**PRESSURE :** 300#**ENDS :** FLANGED**QUANTITY :** 20NOS**VALVE TYPE :** BALL VALVE**PROJECT :** 03624RTPA**VALVE ID :** AMS 2406 1029

HYDRO TEST DATA		SHELL TEST (Water)			H.P Pressure Seat (Water)			L.P Press Test (AIR)		BACK SEAT*		TEST STD			VISUAL INSPECTION			SPECIAL TESTS						
PRESSURE(Mpa)		7.5			5.5			0.7		/		API 598			MSS SP25/55			Anti-static : Passed Cavity Relief : Passed Painting : / / / / /						
DURATION(Min)		60sec			60sec			60sec		/					ACCEPTED									
DESIGN PARAMETERS		FACE TO FACE			END CONNECTION			DESIGN STANDARD			FIRE SAFE DESIGN			SOUR SPEC										
STANDARDS		ASME B16.10			ASME B16.5			ASME B16.34			/			NACE MR-01-75										
RESULT		Within Tolerance			Within Tolerance			Within Tolerance			/			Complied										
PARTS		BODY ADAPTOR			BALL/PLUG/DISC			STEM/HINGE		OPERATOR		SEAT RING			SOFT SEAT			SPRING		GASKET		PACKING		
MATERIAL GRADE		CF3M			316L			316		SS201		PTFE			PTFE			/		PTFE		PTFE		
COATING																								
DESCRIPTION		CHEMICAL ANALYSIS														MECHANICAL ANALYSIS					IMPACT TEST			
PART	HEAT NO	C	Mn	P	S	Si	Cr	Mo	Ni	Cu	V	Nb	Al	Oth	Oth	T.S.	Y.P	EL	RA	BH	J			
		≤ 0.03	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0	-	-	-	-	-	-	≥ 485 Mpa	≥ 205h	≥ 30%	-	-	(-Deg C)			
BODY	AMS20240513	0.074	1.3	0.037	0.029	1.27	18.15	2.18	9.15	-	-	-	-	-	-	490	215	30	-	185	-	-	-	-
BALL	-	0.047	0.81	0.019	0.007	0.76	18.25	2.23	9.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
STEM	-	≤ 0.08	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0	-	-	-	-	-	-	≥ 515 Mpa	-	-	-	-	-	-	-	-
	-	0.049	0.92	0.027	0.013	0.65	16.54	2.16	10.31	-	-	-	-	-	-	526	-	-	-	-	-	-	-	-

Notes: "Hydrostatic Medium Is Water, "** Seat Test Is Conducted On Both Sides For Bi-directional Valves.

We here by confirm that the valves referred in this certificate is confirmed to meet the referred data and approved for release to customer.

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MATERIAL TEST CERTIFICATE (EN: 10204 3.1)**CUSTOMER :** AL ZERWA TRADING CO LLC.**CERTIFICATE NO :** 03624RTPA**DATE OF CERTIFICATE :** 6th July 2024**SIZE :** 1" (25MM)**PRESSURE :** 300#**ENDS :** FLANGED**QUANTITY :** 20NOS**VALVE TYPE :** BALL VALVE**PROJECT :** 03624RTPA**VALVE ID :** AMS 2406 1030

HYDRO TEST DATA		SHELL TEST (Water)			H.P Pressure Seat (Water)			L.P Press Test (AIR)		BACK SEAT*		TEST STD			VISUAL INSPECTION			SPECIAL TESTS						
PRESSURE(Mpa)		7.5			5.5			0.7		/		API 598			MSS SP25/55			Anti-static : Passed Cavity Relief : Passed Painting : / / / / /						
DURATION(Min)		60sec			60sec			60sec		/					ACCEPTED									
DESIGN PARAMETERS		FACE TO FACE			END CONNECTION			DESIGN STANDARD			FIRE SAFE DESIGN			SOUR SPEC										
STANDARDS		ASME B16.10			ASME B16.5			ASME B16.34			/			NACE MR-01-75										
RESULT		Within Tolerance			Within Tolerance			Within Tolerance			/			Complied										
PARTS		BODY ADAPTOR			BALL/PLUG/DISC			STEM/HINGE		OPERATOR		SEAT RING			SOFT SEAT			SPRING		GASKET		PACKING		
MATERIAL GRADE		CF3M			316L			316		SS201		PTFE			PTFE			/		PTFE		PTFE		
COATING																								
DESCRIPTION		CHEMICAL ANALYSIS														MECHANICAL ANALYSIS					IMPACT TEST			
PART	HEAT NO	C	Mn	P	S	Si	Cr	Mo	Ni	Cu	V	Nb	Al	Oth	Oth	T.S.	Y.P	EL	RA	BH	J			
		≤ 0.03	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0	-	-	-	-	-	-	≥ 485 Mpa	≥ 205h	≥ 30%	-	-	(-Deg C)			
BODY	AMS20240513	0.074	1.3	0.037	0.029	1.27	18.15	2.18	9.15	-	-	-	-	-	-	490	215	30	-	185	-	-	-	-
BALL	-	0.047	0.81	0.019	0.007	0.76	18.25	2.23	9.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STEM	-	≤ 0.08	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0	-	-	-	-	-	-	≥ 515 Mpa	-	-	-	-	-	-	-	-
	-	0.049	0.92	0.027	0.013	0.65	16.54	2.16	10.31	-	-	-	-	-	-	526	-	-	-	-	-	-	-	-

Notes: "Hydrostatic Medium Is Water, ** Seat Test Is Conducted On Both Sides For Bi-directional Valves.

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